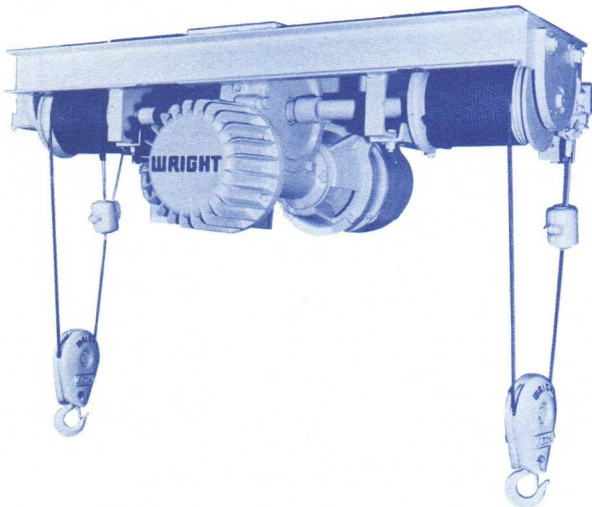




**WRIGHT®**

**Work-rated  
TWIN HOOK HOIST  
CAPACITIES ½ TON to 3 TON**



The *Work-rated* twin hook hoists are designed for those close headroom applications involving long or bulky loads. The twin hooks provide support from two points...minimizing the possibility of load sway, tipping, or rotation. The compact close headroom profile is ideally suited for severe duty applications on monorail, bridge cranes, and lift sections. The high strength, ruggedly built steel frame, when attached to either plain, geared or motorized trolleys, offers ease of operation in lifting and transporting of bulky loads. The balanced design of the hoist has its load hook directly under the track and eliminates tipping as the load varies.

### CONSTRUCTION FEATURES

**FRAME:** Sturdy structural steel components are welded together to form a strong box-like frame.

**GEAR TRAIN:** Gear reduction consists of a quiet, high strength, wear resistant, phosphor bronze worm gear with machine cut teeth; and a surface hardened, precision ground steel worm. Gearing is designed to AGMA standards for maximum life and operates in an oil bath.

**BEARINGS:** All gear reducer shafts are supported on heavy duty, tapered roller bearings to absorb shock of normal radial and thrust loads. The outboard and sheave support bearings are antifriction, lifetime pre-lubricated and doubled sealed ball bearings.

**DRUM:** The large diameter steel drum has deep machined grooves and large flanges. At least two full turns of rope remain on the drum at the lowest hook position of rated lift.

**HOOK:** Drop forged heat-treated steel hook swivels 360° on a shielded roller thrust bearing. Spring latch is standard.

**WIRE ROPE:** Preformed, improved plow steel is supplied with swaged fitting at drum attachment end, other end secured to hoist frame with thimble and cable clamps. This method permits easy adjustment to compensate for cable stretch.

**MOTOR BRAKE:** *Wright* rectified D.C. magnet actuated disc brake has been proven in millions of hours of in service operation. It delivers rapid stops with minimum or zero hook drift. The motor brake has aluminum alloy brake cover with fins and brake is separated from gear housing for rapid cooling. This multiple coil brake is rated a minimum of 100% of full motor torque. The motor brake has an exclusive brake sensing switch that prevents the motor from operating against the brake should brake adjustment be necessary.

**LIMIT SWITCH:** A gravity-type upper hook travel limit switch is provided. The unit is equipped with an automatic momentary lowering circuit. An optional geared limit switch is available which can be factory or field mounted.

**OVERLOAD CUTOFF:** Exclusive patented *Wright* unit is available as optional equipment on all *Work-rated* twin hook hoists.

The Overload Cutoff is a protective device that will permit operation of the hoist within its rated capacity, but will prevent lifting of suspended loads which could cause damage to a properly maintained hoist. In operation it interrupts the raising circuit to the hoist motor and resets automatically when the overload is removed.

**TESTING:** Twin drum electric hoists with hook centers no greater than 10 feet will be tested at time of manufacture. Testing will be in accord with standard testing methods.

Twin drum hoists having hook centers in excess of 10 feet will not be tested prior to shipment and it will be the user's responsibility to conduct tests in accord with ANSI B30.16.

**WARNING:** Equipment described herein is not designed for, and should not be used for, lifting, supporting, or transporting humans. Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer. Failure to comply with any one of the limitations noted herein may result in serious bodily injury.



**1/2 to 1  
TON**

**TWIN HOOK**  
2 PART SINGLE REEVING - 1/4"

31-2

**PRODUCT NUMBER AND CLEARANCES**

Hoist Capacity	Lift in Feet	Hoist Suspension	Lifting Speed Hoist Control	PRODUCT NUMBER AND CLEARANCES				A(a)	
				25	25-8	35	35-12		
				Single Speed	Two Speed	Single Speed	Two Speed	Min.	Max.
1/2 Ton	20	Lug		3710000	3711010	3710120	3711130	30	144
		Plain Trolley		3710010	3711020	3710130	3711140		
		Mtz Trolley - 65 FPM SS		3710030	3711040	3710150	3711160		
		Hoist HP		1-1/2	1-1/2 - 1/2	2	2 - 2/3		
	40	Lug		3710040	3711050	3710160	3711170	44	132
		Plain Trolley		3710050	3711060	3710170	3711180		
		Mtz Trolley - 65 FPM SS		3710070	3711080	3710190	3711200		
		Hoist HP		1-1/2	1-1/2 - 1/2	2	2 - 2/3		
	60	Lug		3710080	3711090	3710200	3711210	59	108
		Plain Trolley		3710090	3711100	3710210	3711220		
		Mtz Trolley - 65 FPM SS		3710110	3711120	3710230	3711240		
		Hoist HP		1-1/2	1-1/2 - 1/2	2	2 - 2/3		
1 Ton	20	Lug		3710240	3711250	3710360	3711370	30	144
		Plain Trolley		3710250	3711260	3710370	3711380		
		Mtz Trolley - 65 FPM SS		3710270	3711280	3710390	3711400		
		Hoist HP		3	3 - 1	4	4 - 1-1/3		
	40	Lug		3710280	3711290	3710400	3711410	44	132
		Plain Trolley		3710290	3711300	3710410	3711420		
		Mtz Trolley - 65 FPM SS		3710310	3711320	3710430	3711440		
		Hoist HP		3	3 - 1	4	4 - 1-1/3		
	60	Lug		3710320	3711330	3710440	3711450	59	108
		Plain Trolley		3710330	3711340	3710450	3711460		
		Mtz Trolley - 65 FPM SS		3710350	3711360	3710470	3711480		
		Hoist HP		3	3 - 1	4	4 - 1-1/3		

All dimensions in inches.

**H** Heavy Duty

**TROLLEY MOTOR DATA:**

Speed 65 FPM  
Control Single Speed  
HP 1/4

(a) Prices are based on minimum hook centers shown.

Trolleys are adjustable for Standard I beam or WF beam, 3-1/4 inch to 8 inch flange width.

**Beam size must be specified.** Trolleys are also available for 3.25 or 3.33" patented track beams.

Trolleys for WF beams with flange widths greater than 8 inches available on application.

All reference to beam flange widths are for clearance purposes only and do not imply that lower flange of beam will support hoist with load.

**WARNING:** Equipment described herein is not designed for, and should not be used for lifting, supporting or transporting humans. Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer. Failure to comply with any of the limitations noted herein can result in serious bodily injury and/or property damage.



# WRIGHT Work-rated ELECTRIC HOISTS

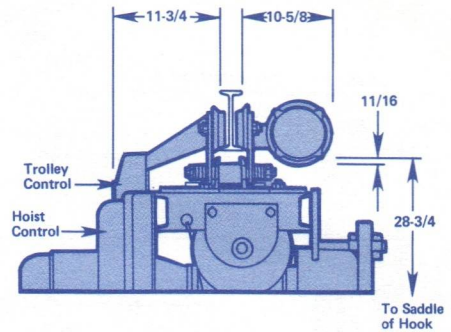
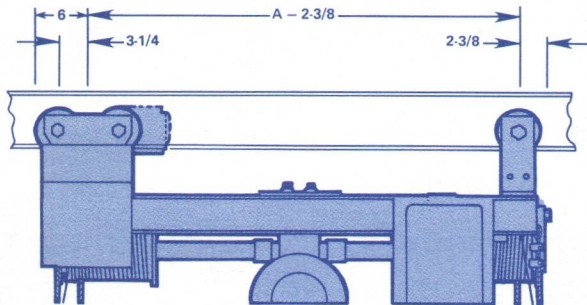
31-3 Issued 4-1-87

TWIN HOOK  
2 PART SINGLE REEVING - 1/4"

1/2 to 1  
TON

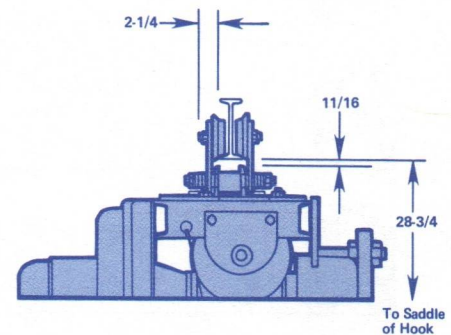
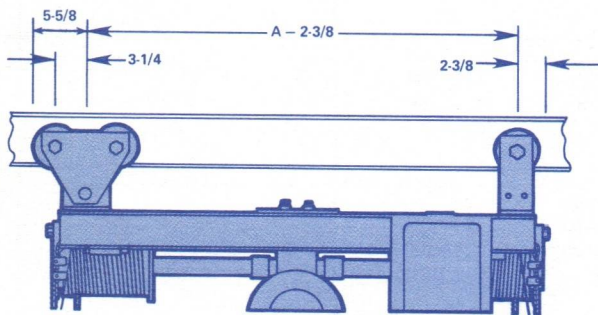
WHEEL DIA. - 4

## ALL LIFTS

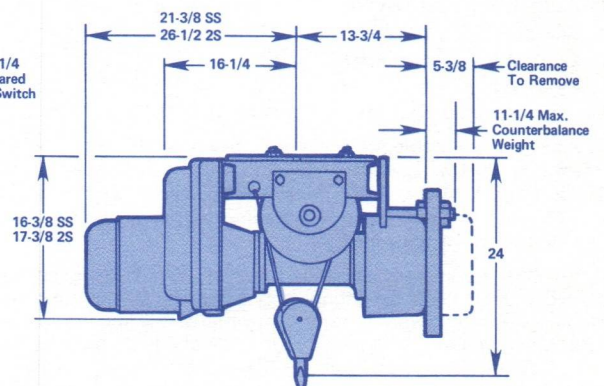
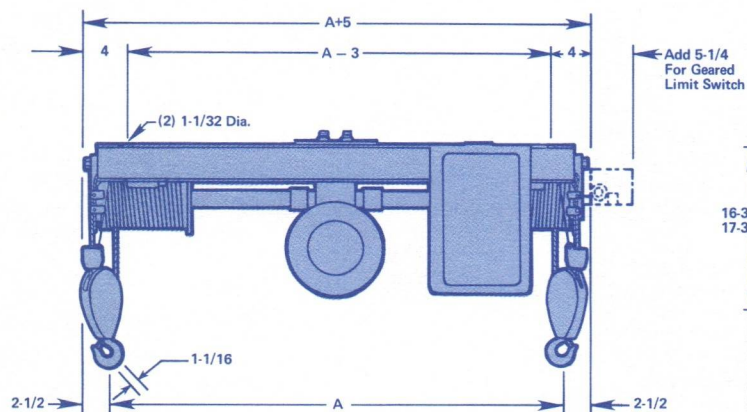


## MOTORIZED TROLLEY

WHEEL DIA. - 4



## PLAIN TROLLEY



## LUG MOUNTING

See facing page for additional dimensions. All dimensions shown in inches. Dimensions which change with beam size are for minimum beam shown.



# 1 1/2 to 2 TON

## TWIN HOOK 2 PART SINGLE REEVING 1/4"

31-4

### PRODUCT NUMBERS AND CLEARANCES

Hoist Capacity	Lift in Feet	Hoist Suspension	Lifting Speed Hoist Control	PRODUCT NUMBERS AND CLEARANCES				A (a)	
				25	25-8	35	35-12	Min.	Max.
				Single Speed	Two Speed	Single Speed	Two Speed		
1 1/2 TON	20	Lug Plain Trolley Mtzt Trolley - 65 FPM SS Hoist HP		3710480 3710490 3710510 4	3711490 3711500 3711520 4 - 1-1/3	3710600 3710610 3710630 5	3711610 3711620 3711640 5 - 1-2/3	30	144
	40	Lug Plain Trolley Mtzt Trolley - 65 FPM SS Hoist HP		3710520 3710530 3710550 4	3711530 3711540 3711560 4 - 1-1/3	3710640 3710650 3710670 5	3711650 3711660 3711680 5 - 1-2/3	44	132
	60	Lug Plain Trolley Mtzt Trolley - 65 FPM SS Hoist HP		3710560 3710570 3710590 4	3711570 3711580 3711600 4 - 1-1/3	3710680 3710690 3710710 5	3711690 3711700 3711720 5 - 1-2/3	59	108
2 TON	20	Lug Plain Trolley Mtzt Trolley - 65 FPM SS Hoist HP		3710720 3710730 3710750 5	3711730 3711740 3711760 5 - 1-2/3			30	144
	40	Lug Plain Trolley Mtzt Trolley - 65 FPM SS Hoist HP		3710760 3710770 3710790 5	3711770 3711780 3711800 5 - 1-2/3			44	132
	60	Lug Plain Trolley Mtzt Trolley - 65 FPM SS Hoist HP		3710800 3710810 3710830 5	3711810 3711820 3711840 5 - 1-2/3			59	108

All dimensions in inches.

**H** Heavy Duty

#### TROLLEY MOTOR DATA:

Speed 65 FPM  
Control Single Speed  
HP 1/4

(a) Prices are based on minimum hook centers shown.

Trolleys are adjustable for Standard I beam or WF beam, 3-1/4 inch to 8 inch flange width.

**Beam size must be specified.** Trolleys are also available for 3.25 or 3.33" patented track beams.

Trolleys for WF beams with flange widths greater than 8 inches available on application.

All reference to beam flange widths are for clearance purposes only and do not imply that lower flange of beam will support hoist with load.

**WARNING:** Equipment described herein is not designed for, and should not be used for lifting, supporting or transporting humans. Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer. Failure to comply with any of the limitations noted herein can result in serious bodily injury and/or property damage.



**WRIGHT Work-rated  
ELECTRIC HOISTS**

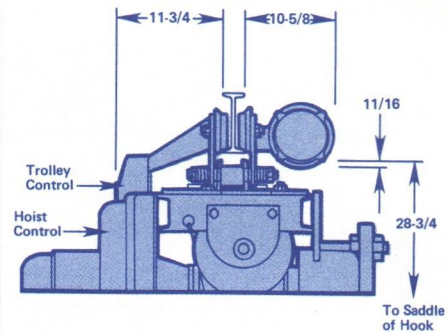
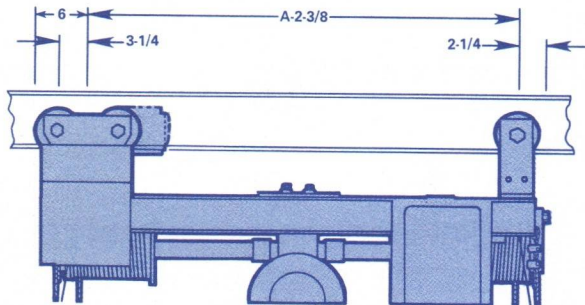
31-5 Issued 4-10-87

**TWIN HOOK  
2 PART SINGLE REEVING - 1/4"**

**1 1/2 to 2  
TON**

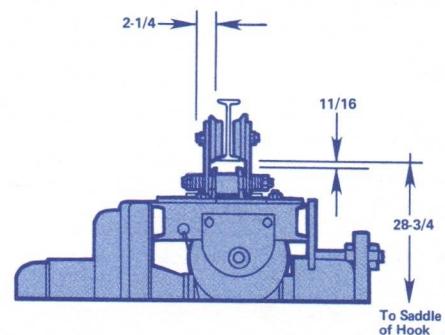
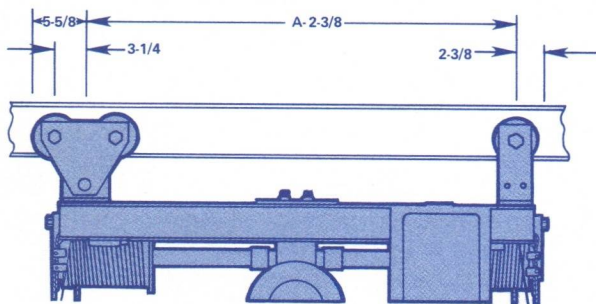
WHEEL DIA. - 4

ALL LIFTS

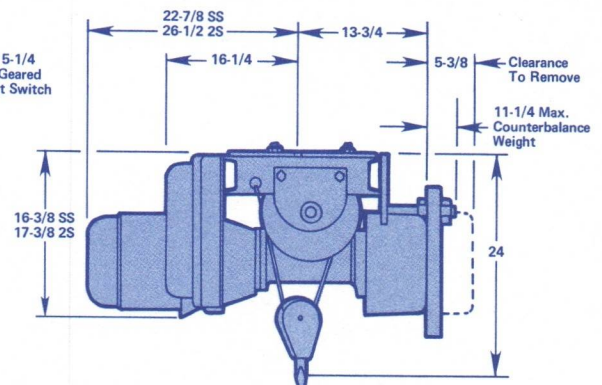
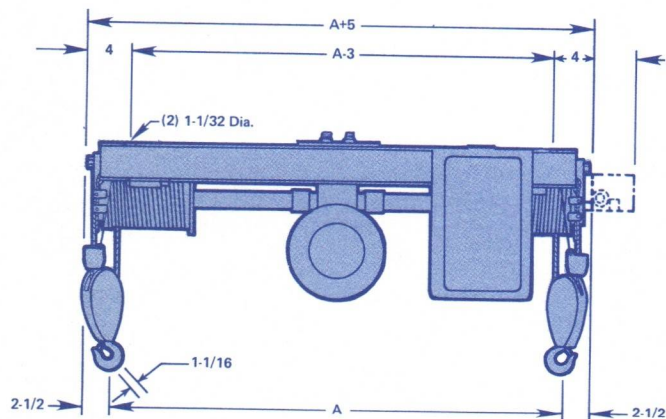


**MOTORIZED TROLLEY**

WHEEL DIA. - 4



**PLAIN TROLLEY**



**LUG MOUNTING**

# 3 TON

## TWIN HOOK 4 PART SINGLE REEVING - 1/4"

### PRODUCT NUMBERS AND CLEARANCES

Hoist Capacity	Lift in Feet	Hoist Suspension	Lifting Speed Hoist Control	12		12-4		17		17-6		A(a)	
				Single Speed	Two Speed	Single Speed	Two Speed	Single Speed	Two Speed	Single Speed	Two Speed	Min.	Max.
3 TON	20	Lug Plain Trolley Mtzt Trolley - 65 FPM SS Hoist HP		3710850	3711860	3710930	3711940	5	5 - 1-2/3	39	120		
				3710860	3711870	3710940	3711950						
				3710880	3711890	3710960	3711970						
				4	4 - 1-1/3								
3 TON	30	Lug Plain Trolley Mtzt Trolley - 65 FPM SS Hoist HP		3710890	3711900	3710970	3711980	5	5 - 1-2/3	53	96		
				3710900	3711910	3710980	3711990						
				3710920	3711930	3711000	3712010						
				4	4 - 1-1/3								

All dimensions in inches.

**H** Heavy Duty

#### TROLLEY MOTOR DATA:

Speed 65 FPM  
Control Single Speed  
HP 1/4

(a) Prices are based on minimum hook centers shown.

Trolleys adjustable for Standard I beam or WF beam, 3-1/4 inch to 8 inch flange width.

**Beam size must be specified.** Trolleys are also available for 3.25 or 3.33" patented track beams.

Trolleys for WF beams with flange widths greater than 8 inches available on application.

All reference to beam flange widths are for clearance purposes only and do not imply that lower flange of beam will support hoist with load.

**WARNING:** Equipment described herein is not designed for, and should not be used for lifting, supporting or transporting humans. Modifications to upgrade, rerate, or otherwise alter the hoist equipment shall be authorized only by the original equipment manufacturer or qualified professional engineer. Failure to comply with any of the limitations noted herein can result in serious bodily injury and/or property damage.





# WRIGHT Work-rated ELECTRIC HOISTS

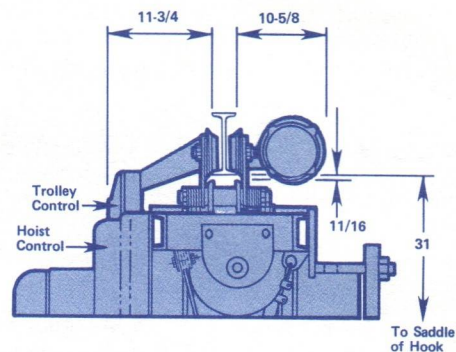
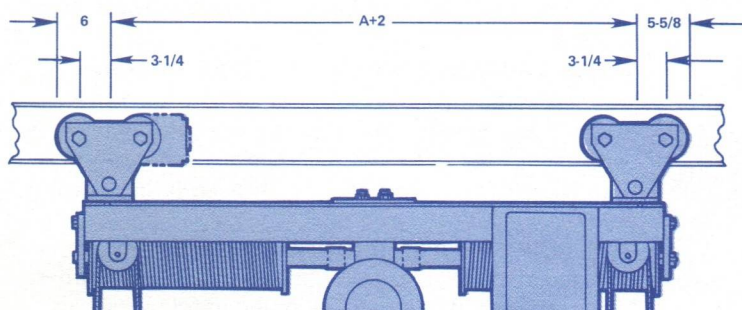
31-7 Issued 4-1-87

TWIN HOOK  
4 PART SINGLE REEVING - 1/4"

3  
TON

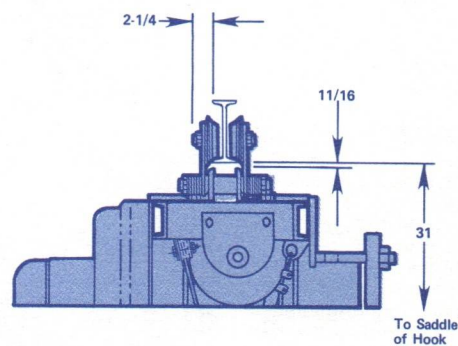
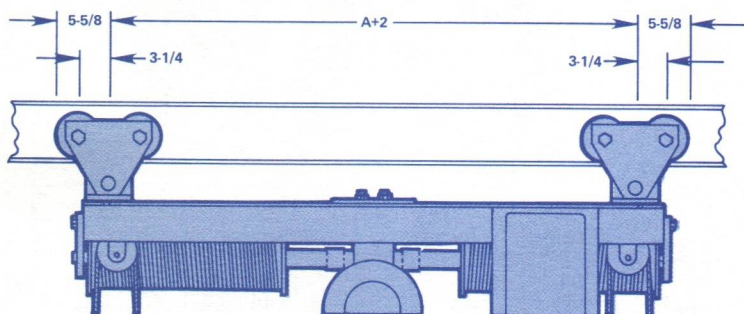
## ALL LIFTS

WHEEL DIA. - 4

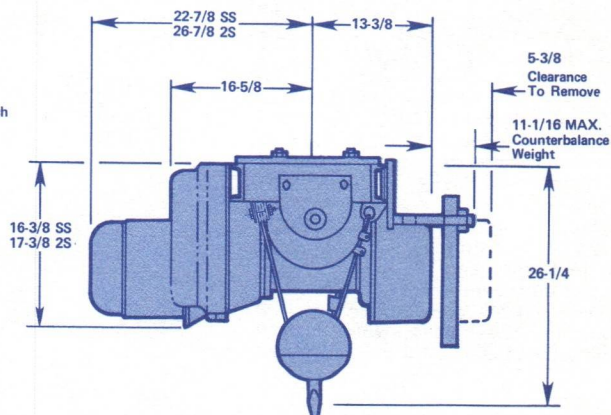
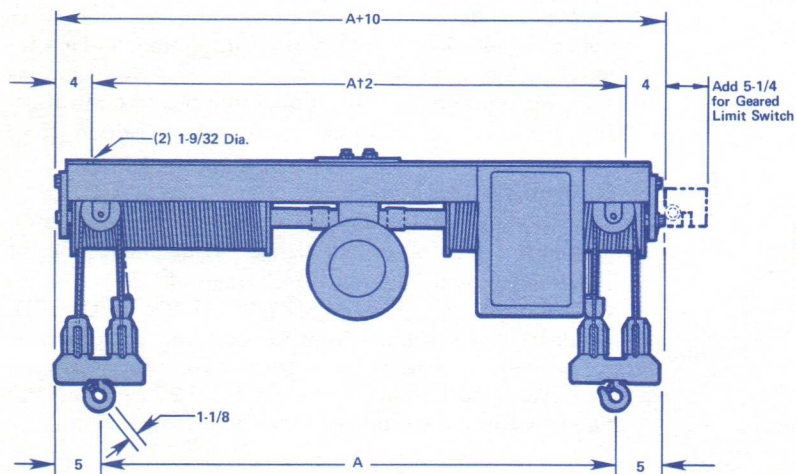


## MOTORIZED TROLLEY

WHEEL DIA. - 4



## PLAIN TROLLEY



## LUG MOUNTING

See facing page for additional dimensions. All dimensions shown in inches. Dimensions which change with beam size are for minimum beam shown.



### INDEX AND CHECK LIST

STD— Standard Equipment

OPT— Optional Equipment

N/A— Not available

APP— On application consult your nearest *WRIGHT* representative.

The descriptions of the following accessories & modifications are found on pages 35-1 through 8.

#### A TROLLEYS

Straight Track Trolleys STD  
Curved Track Trolleys APP  
Patented Track Trolley STD  
Bronze Wheels APP  
Geared Trolley APP  
DRIVES  
65 FPM Single Speed STD  
125 FPM 5-Step Variable Speed APP  
32 FPM Single Speed APP  
65/22 FPM Two Speed APP  
ACM APP  
AC Disc Type Trolley Brake APP  
Trolley Travel Limit Switch OPT

#### B ELECTRIFICATION

Collector Mounting Arm OPT  
"Wright" collectors OPT  
Series C Collector OPT  
Tagline System Towing Arm OPT  
Power Supply Cable OPT  
Cable Reel APP

#### C MOTORS

200-3-60 Power STD  
230-3-60 Power STD  
460-3-60 Power STD  
575-3-60 Power STD  
Special Voltage OPT  
1800 RPM STD  
Slow Speed OPT  
High Temperature Insulation OPT  
Special Environmental Insulation OPT  
Motor Thermostat OPT  
Motor Space Heater OPT  
Hazardous Locations APP

#### D CONTROLLERS

CONTROL ENCLOSURES  
NEMA Type 3R STD  
NEMA Type 4 OPT  
NEMA Type 7D APP  
NEMA Type 9E, F & G APP  
Motor Branch Circuit Fuse OPT  
Control Circuit Fuse STD  
115 Volt Control Circuit STD  
24 Volt Control Circuit OPT  
Thermal Overload Relays OPT  
Mainline Contactor OPT  
Control Space Heater OPT  
Inching Control OPT  
5-Step V.S. Hoist Control APP  
Oversize Transformers OPT  
Extra Controllers OPT  
Less Controllers OPT  
Dual Hoist & Trolley Control APP  
Customer Specified Controls APP  
Circuit Breakers APP

#### E LIMIT SWITCHES

Gravity Operated Limit Switch STD  
Overload Cutoff Device OPT  
Geared Limit Switch OPT  
Power Circuit Limit Switch APP  
Slack Cable Limit Switch APP  
Overwrap Limit Switch APP

#### F PUSH BUTTON STATIONS

ENCLOSURES  
NEMA Type 3R, 4, and 12 STD  
NEMA Type 7D APP  
NEMA Type 9E, F & G APP  
Extra Push Buttons OPT  
Push Button Deduction OPT  
Extra Cord OPT  
Special Nameplate Markings OPT  
Push Button Balancer OPT  
Outrigger Arm APP  
Surface Mounted Station APP  
Pilot Light APP

#### G REEVING

HOOK  
Spring Type Hook Latch STD  
Gate or Swing Type Hook Latch OPT  
Bronze Hook APP  
Balancing STD  
Special Constructed Wire Ropes APP  
Long Lifts APP  
Acid Resistance APP  
Hazardous Locations APP  
Inside Hook Centers APP

### HOW TO SPECIFY A *Work-rated* TWIN HOOK HOIST

1. DETERMINE THE CAPACITY, LIFTING SPEED, LIFTING DISTANCE, HOOK CENTERS, AND SUSPENSION.

2. SPECIFY HOIST SERVICE CLASSIFICATION.

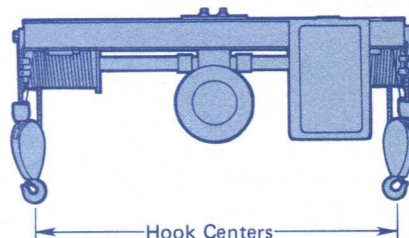
*Wright* electric hoists are *Work-rated* according to their designed capabilities to provide the user with maximum performance for minimum maintenance and down time. See Master Catalog Section 60-1 through 8 for performance specifications.

3. SPECIFY PROPER PRODUCT NUMBER

in regards to hoist capacity, suspension, hook center, lifting speed, and hoist control found in following pages. Twin hook hoists are grouped by load capacity. All twin hook hoists are either 2 part single or 4 part single.

4. SPECIFY HOOK CENTERS.

Prices are based on minimum hook center shown.



Capacity in tons	Lift in feet	Hook centers in inches	
		Minimum	Maximum
1/2	20	30	144
to	40	44	132
2	60	59	108
3	20	39	120
	30	53	96

Hook centers greater than minimum shown up to maximum are available at added cost. See page 132-46.

5. SPECIFY MOTOR VOLTAGE.

*Wright* standard motors are available for 200/230/-460/575-3-60 power with Class B insulation, and are totally enclosed non-ventilated. Control is furnished as standard equipment. Additional motor and control accessories and modifications are found in Section 35 in "C Motor" and "D Controllers" subdivisions.

6. SPECIFY BEAM SIZE.

Twin hook hoist trolleys are available for operation on Standard I Beams (sloped flange), Wide Flange Beams (flat flange), and Patented Track Beams (3.25" or 3.33" wide flat flange). **BEAM SIZE MUST BE SPECIFIED.** Trolleys, when shipped from factory, will be adjustable for a limited range of flange widths for either standard I or flat flange beams. Trolleys for 3.25 or 3.33" flat flange beams are factory set for proper flange width.



### Material Handling Group

1110 East Princess Street, York, PA 17403  
Telephone (717) 843-1523 Telex 84-0411  
FAX (717) 846-5387

Downey, California

12140 Bellflower Blvd., Downey, CA 90241  
Telephone (213) 862-8101 Telex 69-8196